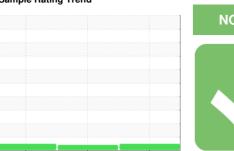


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

KENWORTH T-880 5690 (S/N 1XKZ0P3X1RJ361012)

Diesel Engine

SHELL ROTELLA T 15W40 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

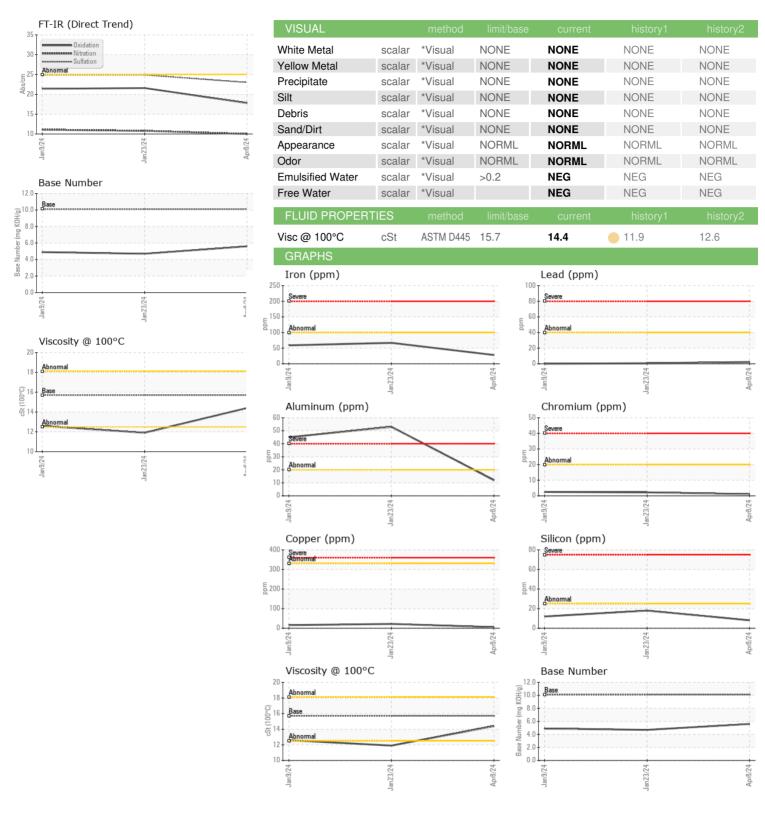
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	Jan2024 Jan2024 Apr2024					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0878858	WC0878740	WC0850987
Sample Date		Client Info		08 Apr 2024	23 Jan 2024	09 Jan 2024
Machine Age	mls	Client Info		36130	18002	23763
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	NORMAL
CONTAMINATION	1	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	0.5	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	28	67	59
Chromium	ppm	ASTM D5185m	>20	1	2	2
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	12	53	45
Lead	ppm	ASTM D5185m	>40	2	<1	0
Copper	ppm	ASTM D5185m	>330	6	22	16
Tin	ppm	ASTM D5185m	>15	2	1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	316	7	33	23
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	1.2	30	12	17
Manganese	ppm	ASTM D5185m		<1	2	2
Magnesium	ppm	ASTM D5185m	24	424	700	852
Calcium	ppm	ASTM D5185m	2292	1975	1343	1386
Phosphorus	ppm	ASTM D5185m	1064	939	706	815
Zinc	ppm	ASTM D5185m	1160	1115	898	970
Sulfur	ppm	ASTM D5185m	4996	3638	2864	3027
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	18	12
Sodium	ppm	ASTM D5185m		3	4	4
Potassium	ppm	ASTM D5185m	>20	36	133	131
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	10.0	10.8	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	24.9	24.9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.8	21.6	21.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	5.6	4.7	4.9



OIL ANALYSIS REPORT







Certificate 12367

Laboratory

Sample No. Lab Number : 06147980

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0878858

Received **Tested** Unique Number : 10978058 Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 12 Apr 2024 : 15 Apr 2024

: 16 Apr 2024 - Don Baldridge

3425 HWY 117N ROSE HILL, NC US 28458 Contact: GREG JONES gregory.jones@houseofraeford.com

JOHNSON BREEDERS

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: (910)289-6884